

TABLE I. DEVICE PARAMETERS 1/

| JPL PART # ST12138- | MFG. | MFG PART # | PACKAGE STYLE | DETAIL SCREENING TESTS | ELECTRICAL CHARACTERISTICS & GROUP A TESTS | RADIATION (TID) LEVEL RAD(Si) |
|------------------------|------|------------|------------------|------------------------------|--|----------------------------------|
| D05806LR | MSC | SM1942 | SMD 2/ | MIL-S-19500/477 | MIL-S-19500/477 (TABLE I) | 100k 3/ |

NOTES:

1/ This drawing, in conjunction with CS515581, imposes all requirements for procurement of these devices.

2/ Device physical dimensions shall conform to MIL-S-19500, appendix F, figure 22, outline number D-5A.

3/ Sufficient radiation tolerance to this TID level is guaranteed by design for this device. (See CS515581, Paragraph 4.7.7).

4/ In addition to the requirements specified above, the initial lot of devices procured to this specification shall be subjected to the following Group C tests of MIL-S-19500/477:

**Thermal shock (glass strain)
Hermetic seal (gross leak)
Shock
Vibration (variable frequency)
Steady-state operation life**

In order to satisfy the Group C life test requirement, the Group B life test of Subgroup 4 (see CS515581, paragraph 4.7.5) may be continued on test for an additional 1000 hours.

5. Final finish of terminations shall be hot solder dip in accordance with MIL-S-19500.

6. For shipment to JPL devices shall be packaged in tape and reel carriers, unless otherwise specified.

7. This standard takes precedence over documents referenced herein.

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|--|---------------|--------------------|---|--|--|
| RELEASED THRU SECTION 356 DATA MANAGEMENT: | | | DATE: | | |
| REVISION: C | | | APPROVED BY: | | |
| DATE: | | | DATE: | | |
| APPROVED SOURCE(S) | | | <small>THE ITEM LISTED IN THE APPROVED SOURCE BLOCK AND IDENTIFIED BY VENDOR NAME, ADDRESS, AND PART NUMBER WILL BE EVALUATED AND TESTED BY THE JPL ELECTRONIC PARTS RELIABILITY SECTION OR ITS DELEGATED ALTERNATE BEFORE BEING APPROVED FOR USE. NON-JPL USERS SHALL CHECK WITH THE ELECTRONIC PARTS RELIABILITY SECTION ON THE STATUS OF THE PART'S APPROVAL BEFORE USING.</small> | | |
| VENDOR PART NO | VENDOR | JPL PART NO | | | |
| ----- | ----- | ----- | | | |
| JET PROPULSION LABORATORY | | | CALIFORNIA INSTITUTE OF TECHNOLOGY | | |
| CAGE NO 23835 | | | | | |
| Procurement specification: CS515581 Screening specification: ZPP-2073-GEN | | | TITLE: DIODE, SILICON, RECTIFIER FAST RECOVERY, 1A | | |
| Custodian: Electronic Parts Reliability Section 514 | | | DETAIL SPECIFICATION | | |
| | | | ST 12138 | | |
| | | | SHEET 1 OF 1 | | |

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